

William J. Hernández, EIT

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EDUCATION

Boston University, Boston, MA

Fall 2006-May 2010

Bachelor of Science in Mechanical Eng – Concentration in Energy Technologies and Environmental Eng

Tecnológico de Monterrey, Guadalajara, México

Spring 2008

AWARDS & RECOGNITIONS

BAE Systems' Bronze Chairman's Award Winner for role in Measuring Environmental Performance

Summer 2012

BAE Systems' Bronze Chairman's Award Winner for role in Sustainability – Cultural Transformation

Summer 2012

BAE Systems' Nomination for Electronic Systems' Early Careers Program

Summer 2012

Huntington, NY Young Professional's "30 Under 30" Award Recipient

May 2012

BAE Systems' Bronze Chairman's Award Winner for role in Energy Management Community Outreach Team

Summer 2011

Computer Skills:

MATLAB, C++, Visio, SolidWorks,
AutoCAD, Pro-E, Linux, MacOSX,
Advanced MS Office

Technical Affiliates:

Engineer in Training (EIT)
Order of the Engineer
Tech Class License – FCC KE5BRZ

Languages:

Spanish Fluency
Advanced French ACTFL
Novice Portuguese/Italian Proficiency

EXPERIENCE

United States Peace Corps, Burkina Faso, Africa

June 2013-Aug 2013

Formal Education Volunteer

- Trainee Class Representative – voted as co-liaison between 24 Peace Corps Trainees and the Peace Corps Burkina Faso Bureau.
- Taught 40+ students 8th and 6th grade level Mathematics in French with limited resources.
- Early Terminated due to medical concerns.

BAE Systems Electronic Systems, Greenlawn, NY

Feb 2011-May 2013

Energy Engineer I – Analytics & Consulting

- **BAE Systems' Global Environmental Sustainability Project** – chosen by the Facilities' Director to lead sector in a case study created by Director of Corporate Responsibility for BAE Systems, PLC utilizing normalized KPI values to analyze 4 sites' utility reductions since 2008. Won Chairman's Award for role in project.
- **Electronic Systems Sustainability Analytics Lead** – appointed to lead sector in monthly utility data validation and quarterly metric generation for 13 major sites (~4M sqft). Created a data system to autonomously compare monthly data with site performance targets and generate a user-friendly report card tool.
- **Global Sustainability Forum** – represented BAE Systems, Inc as a subject matter expert in sustainability analytics, quantification of carbon emissions, and clean energy technologies in a global forum of members from BAE Systems India, Australia, UK, Sweden, and the Kingdom of Saudi Arabia.
- **Global GHG Reporting Team** – led a collaboration of sustainability best practices and GHG emissions management with BAE Systems, PLC. Created a quarterly reporting structure to internally publicize Electronic Systems' carbon footprint.
- **Utility Cost Takeout (UCT) Assessor** – assessed facilities and manufacturing areas to identify energy savings opportunities. Trained employees on subject matter expertise. Identified over \$30,000 in UCT savings opportunities in Columbia, MD, \$60,000 in Burlington, MA, and \$150,000 in Ft. Wayne, IN. Familiar with Demand Response, Onsite Renewable Energy, Energy Services Agreements, and Federal tax credit opportunities.
- **Energy Star** – led a remote team in a macro-to-micro energy analysis to highlight energy "hogs" and provide quantitative reasoning for UCT assessments. Energy Star certified 4+ buildings. Initiated BAE Systems' participation in the EPA's Battle of the Buildings.
- **Professional Research** – continued education at Stony Brook University's Graduate Mechanical Engineering School; provided technical expertise to sector management team focusing on Carbon/Water Nexus, EVs in America, and Sustainable Power Markets.

Brownsville Public Utilities Board, Brownsville, TX

Aug 2010-Jan 2011

Project Engineering Intern – Plant Engineering

- Successfully assisted in the management of 8 water/wastewater plant engineering projects. Appointed the engineering point of contact between the Maintenance Department and the Engineering & Operations Departments.
- Performed cost-benefit and life-cycle cost analyses to provide management with quantifiable reasoning for project proposals.
- Student lead liaison in a \$30 million expansion project of a wastewater treatment plant. Represented the Maintenance Department in a team consisting of an Engineering Firm, a Legal Firm, and the internal Engineering/Operations Department.

ORGANIZATIONS/PHILANTHROPY

BAE Systems' Diversity & Inclusion, Electronic Systems

Fall 2012-Summer 2013

Centro Cultural Hispano, Volunteer High School Math Tutor

Spring 2012-Summer 2013

Town of Huntington, NY Green Committee / Young Professionals

Fall 2011-Summer 2013

Hands to Honduras, Volunteer Translator

Feb 2011

INTERESTS

Leadership Development • Global Energy • Technology • International Business • Linguistics